

Fundamentals of Rolling Bearing Tribology

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Abstract:

The talk will discuss the different aspects of rolling bearing tribology, starting from the modern industrial challenges in rolling bearings. Fundamental aspects of the oil lubrication of rolling bearings will be addressed, Elastohydrodynamic lubrication (EHL), friction and dry contact. Then the focus will be towards the fundamentals of the different bearing failure modes (surface fatigue, wear, seizure, etc) and finally brief aspects of bearing life calculation will be discussed.

Bio:

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PhD in Tribology from the University of Cambridge, U.K.,
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Scientific interests are: Modelling of Bearing life, friction, lubrication and surface life.